



UST and SAF Bulletin

Arizona Department of Environmental Quality

Subject: UST Groundwater Monitoring Guidance

Effective: 06/23/03

Supersedes:

Item: 04-05

TYPE

Water Level Measurements and Ground Water Sampling Guidance

BACKGROUND

The current UST Release Reporting and Corrective Action Guidance was not comprehensive in respect with the frequency of water level measurements and groundwater sampling after a site characterization report was submitted to ADEQ. The UST Program in coordination with the UST Policy Commission developed this additional guidance and implementation plan (Bulletin 04-06) that assists UST stakeholders in using the new guidance.

CONTENT

Please see the attached guidance.

CONTACT:

Judy Navarrete, navarrete.judy@adeq.state.az.us
602-771-4815

ADEQ Underground Storage Tank (UST) Program

WATER LEVEL MEASUREMENTS AND GROUND WATER SAMPLING

06/23/03

FREQUENCY AND REPORTING

	<u>RELEASE REPORTED</u> !	<u>SCR SUBMITTED</u> !	<u>SCR APPROVED</u> !	<u>CAP SUBMITTED</u> !	<u>CAP APPROVED</u> !	<u>LUST CASE CLOSURE</u>
FREQUENCY*	Quarterly or as approved by ADEQ, until SCR is approved		As requested in ADEQ SCR approval letter until LUST case closure or until CAP is approved, if applicable; or as approved by ADEQ			As stated in approved CAP
REPORTING	In Initial Site Characterization Report or when SCR is submitted		In Periodic Site Status Reports as requested or approved by ADEQ			As stated in approved CAP

* It is assumed that water levels are measured during groundwater sampling events, and that additional water level measurements may be conducted according to a different frequency. In addition, not all monitor wells may have the same frequency for water level measurements and groundwater sampling (e.g. annual, bi-annually, quarterly, monthly). Also, It is not always necessary to measure or sample all monitor wells. The number of monitor wells to include in water level measurements or groundwater sampling should be based on site specific conditions. It is assumed that on-site wells will be generally constructed within a short time of each other. Therefore, during site characterization, quarterly monitoring may be initiated after the on-site investigation is complete. If additional wells are necessary, each well may be initially sampled, and then subsequent events incorporated into the ongoing monitoring frequency.

EXAMPLE RATIONALE FOR JUSTIFYING MORE FREQUENT WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLING

Water Level Measurement:

- If there is no local hydrologic information, or known information indicates the potential of significant water level fluctuations.
- If information is needed for the adequate design of a remedial system and there are significant water level fluctuations.

Groundwater Sampling:

- If the water quality of a groundwater production well or another receptor is imminently threatened.
- If sampling is necessary to determine the effectiveness of a new remedial system.